Datasheet

Vert-X 28 - 10.8 ... 35V / 0.1 - 10V / Single

2831736611102

Technical datas

Mechanical version	6 mm shaft D-shape; IP65
Sensor principle	MH-C
Electrical angle	Electrical angle 360°
Power supply voltage	24 VDC
Output signal	0.1–10 V
Output characteristics	Single, positive gradient CW
Electrical connection	Round cable, 3-pole
Length of wires/cable	1.0 m (cable)

Electrical Datas

Measuring range	°	0…360
Indep. linearity (typ.)	% of measuring range	±0.3
Max. hysteresis	°	0.1
Resolution	bit	12
Max. repeatability	°	0.1
Sample rate fast mode	kHz	(5)
Sample rate slow mode	kHz	1.66
System propagation delay fast mode	µs	(800)
System propagation delay slow mode	µs	4600
Max. temperature coefficient of output signal	ppm/K	100
MTTFd / MTBF		upon request
Power supply voltage	VDC	10.8 ... 35
Current consumption without load (typ.) fast mode, per channel	mA	(19)
Current consumption without load (typ.) slow mode, per channel	mA	14
Min. ohmic load at output	kOhm	10
Max. capacitive load at output	nF	100
Reverse polarity protection of power supply		yes
Electrical connection		Round cable, 3-pole
Cross section of single wires	mm²	0.56 (AWG20)
Redundancy possible		no

Mechanical Datas

Mechanical range	°	360 (continuous)
Protection rating		IP54 / IP65
Max. starting torque at specified protection rating	Ncm	0.5 / 3
Max. rotating speed	rpm	120
Min. life	movements	50 Mio.
Max. permitted axial shaft load	N	20
Max. permitted radial shaft load	N	20
Operating & storage temperature	°C	-40 ... +85
EN 60068-2-6, vibration (Amax = 0.75 mm, f = 5–2,000 Hz)	g	20
EN 60068-2-27, shock	g	50

Features

- Compact dimensions
- Contactless measuring method
- Long life
- High measurement accuracy
- Elongated holes in mounting tabs for simple adjustment
- Full resolution and accuracy at programmed electrical angle

Features MH-C

- Linearity ±0.3%
- Resolution 12 bit
- Lower price than MH-C2

Contelec AG, A company of the Siedle-Group
Portstrasse 38, CH-2503 Biel/Bienne, Telefon +41 32 366 56 00
Telefax +41 32 366 56 04, verkauf@contelec.ch

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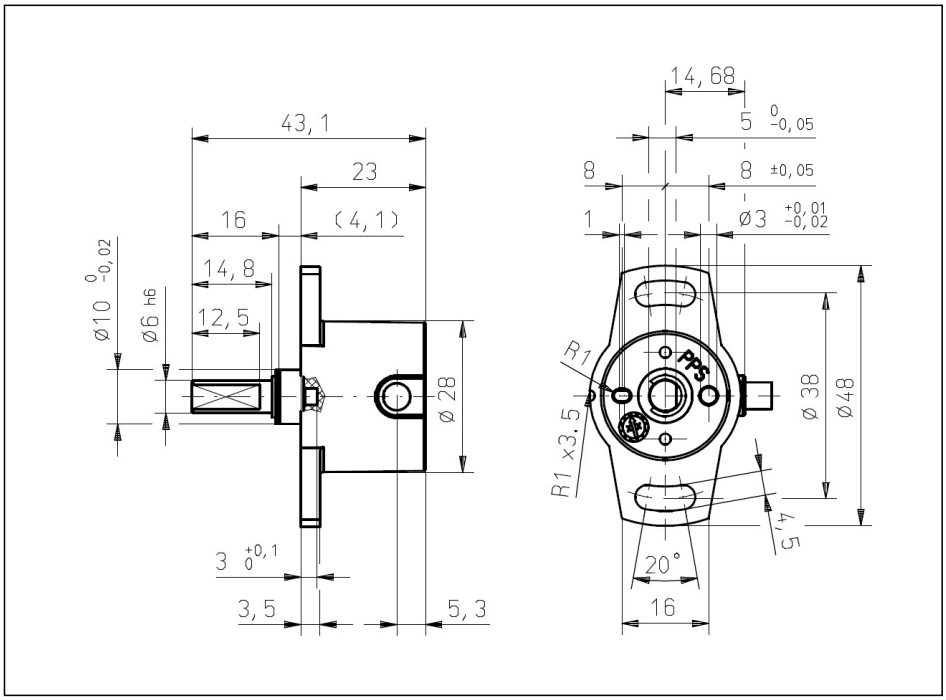
Standards

EN 55011, Emission (Cl. B)		
EN 61000-4-2, ESD (contact discharge / air discharge)	kV	±4 / ±8
EN 61000-4-3, Immission HF radiated (80–1000 MHz/1.4–2.7 GHz)	V/m	30
EN 61000-4-4, Burst (on all lines)	kV	±1
EN 61000-4-5, Surge (lines to ground)	kV	±1
EN 61000-4-6, Immission HF conducted (0.15–80 MHz)	Vemf	10
EN 61000-4-8, Immission magnetic field (50 Hz)	A/m	300
EN 60393-1, Insulation resistance (500 VDC, 1 bar, 2s)	GOhm	20
EN 60393-1, Dielectric strength (VAC, 50 Hz, 1 min, 1 bar)	kV	1

Options

Custom shaft design
Custom cable/wires
Sample rate in fast mode
Switch functions TTL (max. 2)
Special electrical angle between 30 and 360° (ex factory)



Accessories (incl.)

- None

CONTELEC
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